

Series IDU(A)□E

Air Flow Capacity
Increased up to the
max 40%
(SMC comparison)

Power Consumption
Decreased up to the
max 40%
(SMC comparison)

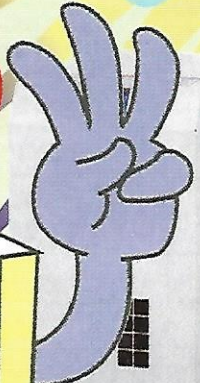
Refrigerant
R134a (HFC)
R407C (HFC)
(Coefficient of destruction for ozone is zero)

High temperature air inlet type
(Rated inlet air temperature: 55°C)

Improved corrosion resistance with the use of stainless steel, plate type heat exchanger



Call us for details:

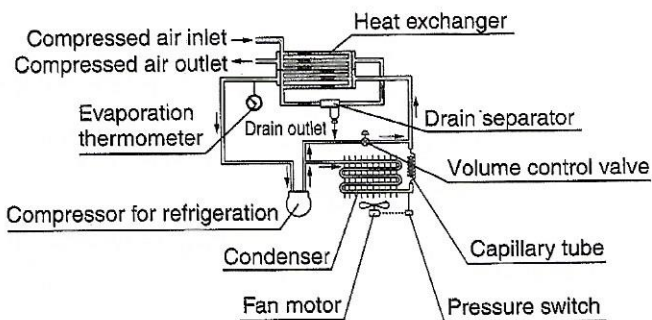


Specification		Model	IDUA3E	IDUA4E	IDUA6E	IDU8E	IDU11E	IDU15E	IDU22E	IDU37E	IDU55E	IDU75E
			-23	-23	-23	-23	-23	-23	-23	-23	-23	-23
Rated Condition	Air Flow Capacity ℓ/min	Standard ^{Note 1)} condition (ANR) (50Hz)	320	520	750	1100	1500	2600	3900	5700	8400	11000
	Inlet air pressure (Mpa)		0.7									
	Inlet Air Temperature ($^{\circ}\text{C}$)		55									
	Ambient Temperature ($^{\circ}\text{C}$)		32									
	Outlet air pressure dew point ($^{\circ}\text{C}$)		10									
Operating Range	Working Fluid		Compressed Air									
	Inlet Air Temperature ($^{\circ}\text{C}$)		5 to 80									
	Inlet Air Pressure (MPa)		0.15 to 1.0									
	Ambient Temperature (humidity) ($^{\circ}\text{C}$)		2 to 40 (Relative Humidity of 85% or less)									
Electric Specifications	Power supply voltage frequency) ^{Note 4)}		Single -phase 230VAC $\pm 10\%$ 50Hz									
	Operating Current (A) 50Hz		1.5	1.6	2.9	1.7	3.0	3.4	4.3	7.5	10.7	
	Power Consumption (W) 50Hz		210	220	400	260	425	550	960	1600	2300	
Circuit Breaker (Note 2) (A)			5					10				20
Refrigerant			R134a (HFC)					R407C (HFC)				
Auto drain			Float type (normally open)									
Port size			Rc 3/8	Rc 1/2	Rc 3/4			Rc 1	R1	R 1.1/2	R 2	
Weight (kg)			23	27	28	44	47	71	90	130	160	166
Coating color			Body panel: Urban white 1, Base : Urban gray 2									
Applicable Compressor kW (Standard)			2.2	3.7	5.5	7.5	11	15	22	37	55	75

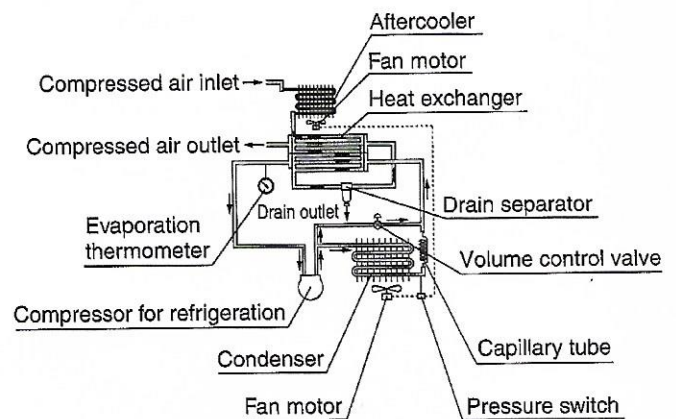
Note 1: The data for ℓ/min (ANR) is referring to the conditions of 20°C, 1atm. Pressure & relative humidity of 65%.
 Note 2: Install circuit breaker that comes with sensivity of 30mA.

Construction Principle (Circuit for Air / Refrigerant)

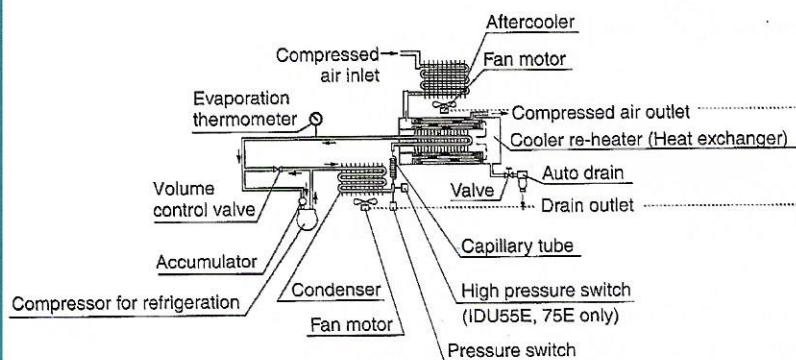
IDUA3E TO 6E



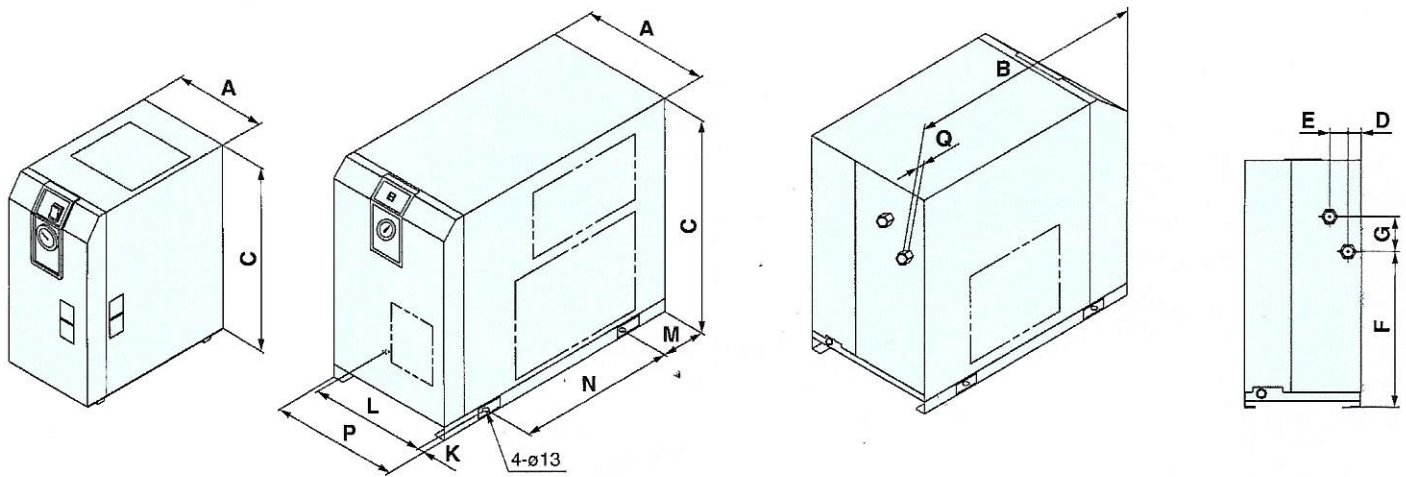
IDU8E to 15E



IDU22E TO 75E



IDUA3E to 6E

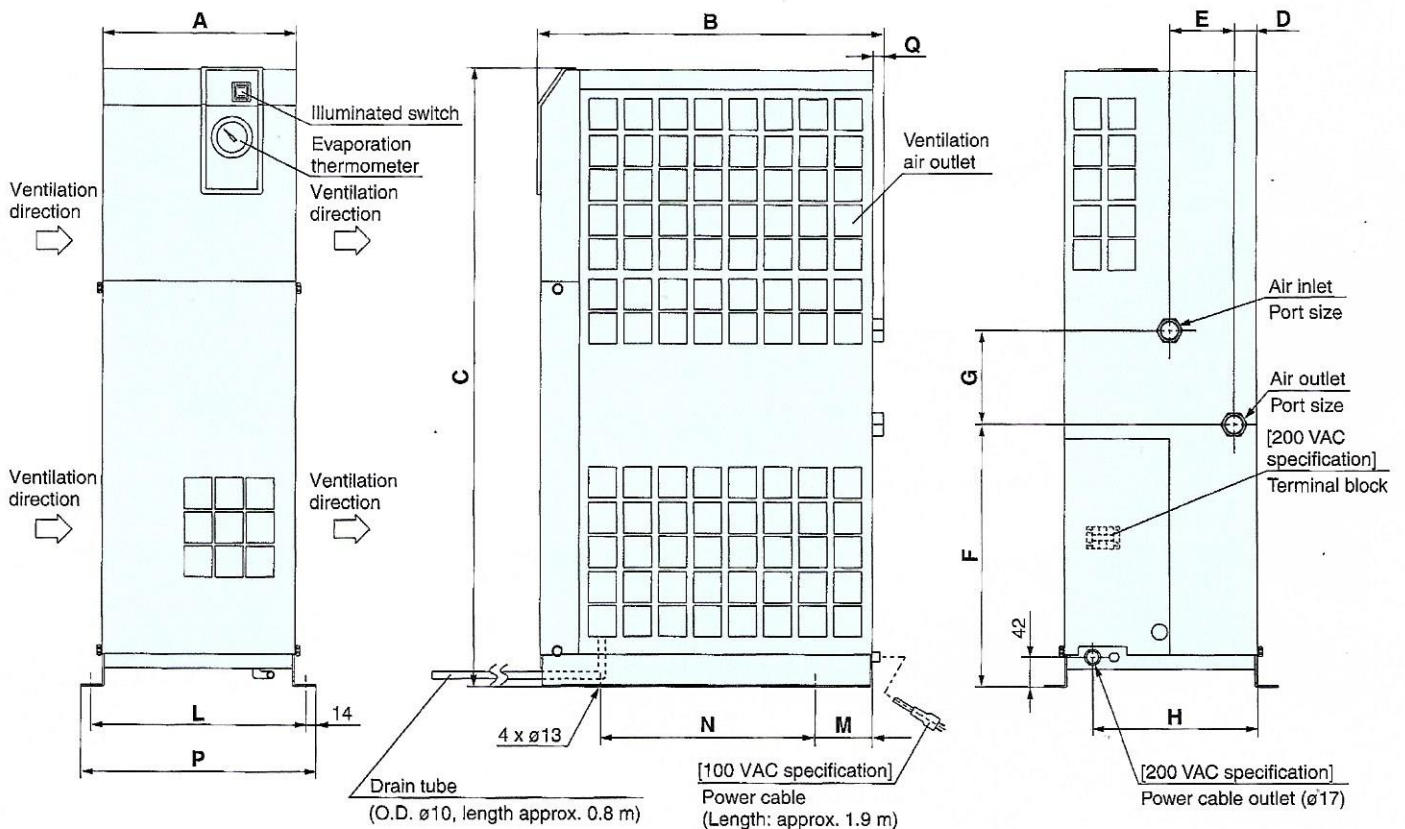


Dimensions

(mm)

Model	Port size	A	B	C	D	E	F	G	K	L	M	N	P	Q
IDUA3E	Rc 3/8		455	498			283					275		
IDUA4E	Rc 1/2	270	485	568	31	42	355	80	15	240	80	300	-	15
IDUA6E	Rc 3/4		485											

IDU8E to 15E

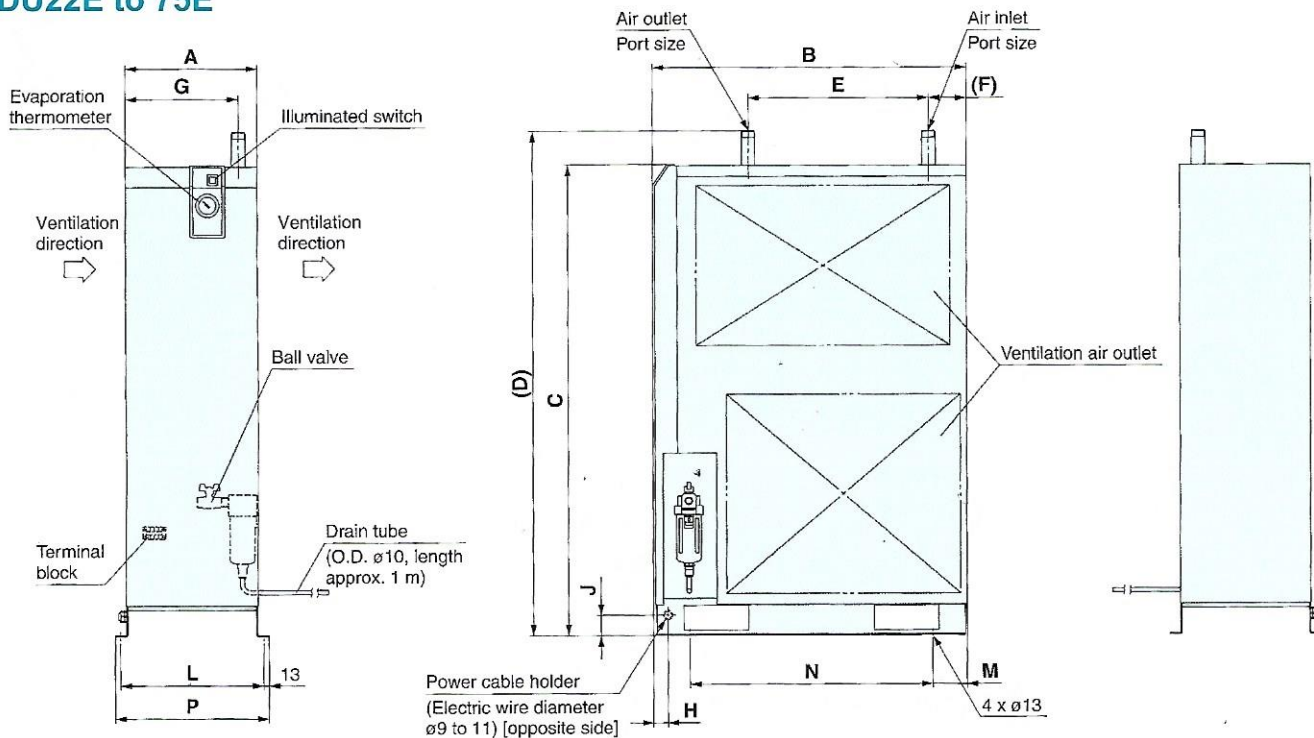


Dimensions

(mm)

Model	Port size	A	B	C	D	E	F	G	H	L	M	N	P	Q
IDU8E	Rc 3/4	270	485	859	31	90	365	130	230	300	80	300	328	15
IDU11E				909										
IDU15E	Rc 1	300	620	960	79	54	425	93	258	330	66	470	358	16

IDU22E to 75E



Dimensions

(mm)

Model	Port size	A	B	C	D	E	F	G	H	J	L	M	N	P
IDU22E	R 1	325	775	1153	1235	445	93	279	46		353	85	600	379
IDU37E	R1 1/2	360		1258	1350	550	64	290	46	50	388		680	414
IDU55E	R 2	470	855	1345	1440	530	53	360	30		500	75	700	526
IDU75E				1480	1575									

Model Selection Guide

The corrected air flow capacity, which considers the user's operating conditions, is required for selecting the air dryer. Please select using the following procedures.

- 1 Read the correction factor.**
Obtain the correction factor A to D suitable for your operating condition from the table below.
- 2 Calculate the corrected air flow capacity.**
Obtain the corrected air flow capacity from the following formula.
Corrected air flow capacity = Operating air flow capacity ÷ (Correction factor A x B x C x D).
- 3 Select the model**
Select the model which corrected air flow capacity exceeds the air flow capacity from the specification table. (For the air flow capacity, refer to the data E).

Data A: Inlet Air Temperature

Inlet air temperature (°C)	Correction factor	
	IDUA3E~37E	IDU55E,75E
5 to 45	1.15	1.21
50	1.07	1.10
55	1	1
60	0.95	0.87
65	0.9	0.76
70	0.86	0.74
75	0.82	0.72
80	0.79	0.70

Data B: Ambient Temperature

Ambient temperature (°C)	Correction factor	
	IDUA3E~37E	IDU55E,75E
2 to 25	1.2	1.25
30	1.04	1.11
32	1	1
35	0.93	0.90
40	0.84	0.63

Data C: Outlet Air Pressure

Outlet air pressure dew point (°C)	Correction factor	
	IDUA3E~37E	IDU55E,75E
3	0.55	0.53
5	0.7	0.67
10	1	1
15	1.3	1.30

Data D: Inlet Air Pressure

Inlet air pressure (MPa)	Correction factor	
	IDUA3E~37E	IDU55E,75E
0.2	0.62	0.62
0.3	0.72	0.69
0.4	0.81	0.77
0.5	0.88	0.85
0.6	0.95	0.93
0.7	1	1
0.8	1.06	1.08
0.9	1.11	1.16
1 to 1.6	1.16	1.23

Data E: Air Flow Capacity

Model	IDUA3E	IDUA4E	IDUA6E	IDU8E	IDU11E	IDU15E	IDU22E	IDU37E	IDU55E	IDU75E
Air flow capacity (ℓ/min) (ANR)	320	520	750	1100	1500	2600	3900	5700	8400	11000